dacor®
The Life of the Kitchen.®

Installation Instructions

Millennia® Island (Ceiling Mount) Range Hoods

For use with models:

DHI361, DHI421, DHI482, DHI542 and DHI602

APPROVED FOR USE WITH ALL DACOR® RANGES AND COOKTOPS.

Part No. 101744 Rev. D

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Before You Begin...

Important:

- **Installer:** In the interest of safety and to minimize problems, read these installation instructions completely and carefully before you begin the installation process. Leave these installation instructions with the customer.
- **Customer:** Keep these installation instructions for future reference and the local electrical inspector's use.

If You Need Help...

If you have questions or problems with installation, contact your Dacor dealer or the Dacor Customer Service Team. For repairs to Dacor appliances under warranty call the Dacor Distinctive Service line. Whenever you call, have the model and serial number of the appliance ready. The model and serial number are printed on the appliance data label (see below for location). Remove the filter(s) to view the label.

Dacor Customer Service Team

Phone: (800) 793-0093 (U.S.A. and Canada)
Monday — Friday 6:00 A.M. to 5:00 P.M. Pacific Time

Web site: www.Dacor.com

Dacor Distinctive Service (for repairs under warranty only)

Phone: (877) 337-3226
Monday — Friday 6:00 A.M. to 4:00 P.M. Pacific Time

Appliance Data Label

- The appliance data label contains the model and serial number information and the electrical requirements.
- The label is located inside the hood chassis behind the filter(s). Remove the filter(s) to view it.

All specifications subject to change without notice. Dacor assumes no liability for changes to specifications.

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Important Safety Instructions

Important Information About Safety Instructions

- The ***Important Safety Instructions*** and warnings in these instructions are not meant to cover all possible problems and conditions that can occur. Use common sense and caution when installing, maintaining or operating this or any other appliance.
- Always contact the Dacor Customer Service Team about problems and conditions that you don't understand.

Safety Symbols and Labels

⚠ DANGER

Immediate hazards that **WILL** result in severe personal injury or death.

⚠ WARNING

Hazards or unsafe practices that **COULD** result in severe personal injury or death.

⚠ CAUTION

Hazards or unsafe practices that **COULD** result in minor personal injury or property damage.

⚠ DANGER

To avoid the possibility of explosion or fire, do not store or use combustible, flammable or explosive vapors and liquids (such as gasoline) inside or in the vicinity of this or any other appliance. Also keep items that could explode, such as aerosol cans away from range or cooktop and range hood. Do not store flammable or explosive materials in adjacent cabinets or areas.

⚠ WARNING

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.

b) Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

⚠ WARNING

WARNING – TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

a) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.

b) Sufficient air is needed for proper combustion and exhausting of gases through the flue(chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.

c) When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

d) Ducted fans must always be vented to the outdoors.

⚠ CAUTION

For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

READ AND SAVE THESE INSTRUCTIONS

Important Safety Instructions

General Safety Precautions

To reduce the risk of fire, electric shock, serious injury or death when using your appliance, follow basic safety precautions, including the following:

⚠ WARNING

- If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.
- Do not install or operate this hood if it has been damaged, dropped, has damaged electrical wires or is not working properly. If the product is damaged when received, immediately contact the dealer or builder.
- This range hood must be installed and grounded by a qualified installer according to these installation instructions.
- Install or locate this appliance only in accordance with these installation instructions and the requirements specified by the manufacturer of the cooktop or range. Improper installation, adjustment, alteration, service or maintenance can cause serious personal injury or property damage.
- The customer should not install, repair or replace any part of the range hood unless specifically recommended in the literature accompanying it. A qualified service technician should perform all other service.
- Keep all packaging materials away from children. Plastic bags can cause suffocation.
- Do not use an extension cord or adapter plug with this appliance.
- The installer must show the customer the location of the fuse box or circuit breaker panel so that the customer knows where and how to turn the power off.
- Read the use and care manual completely before using the appliance. Clean the appliance only as instructed in the use and care manual. Use only the cleaners specified.
- Clean the filter(s) and all grease-laden surfaces often to prevent grease fires and maintain performance. Never allow the filter(s) to become blocked or clogged. Do not allow foreign objects, such as cigarettes or napkins, to be sucked into the hood.
- Do not tamper with the controls.
- If the range or cooktop and range hood are near a window, use an appropriate window treatment. Avoid long drapes or other window coverings that could blow over the cooktop and hood, resulting in a fire hazard.
- Never leave the range or cooktop unattended when a burner (or element) is in use. Boil-overs and greasy spills may smoke and/or ignite.
- Do not leave children or pets alone or unattended in the area where the range or cooktop and range hood are in use. Never allow children to sit or stand on an appliance. Do not let children play with a range, cooktop or range hood. Do not store items of interest to children above or around the cooktop, range or range hood.
- The minimum vertical distance between the cooking surface and the exterior part of the hood must be no less than 30” (76.2 cm). The vertical distance may be longer for the range or cooktop being used. Consult the range or cooktop installation instructions for the minimum and maximum vertical distance from the appliance being used.
- TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.
- TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE:
  a) SMOTHER FLAMES with a close-fitting lid, cookie sheet or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.
  b) NEVER PICK UP A FLAMING PAN - you may be burned.
  c) DO NOT USE WATER, including wet dish cloths or towels - a violent steam explosion may result.
  d) Use a fire extinguisher ONLY if:
     - You have a Class ABC extinguisher, and you already know how to operate it.
     - The fire is small and contained in the area where it started.
     - The fire department is being called.
     - You can fight the fire with your back to an exit.

Installation Specifications

Performance Specifications

All Models

Blower	600 CFM* (for single blower units) 1200 CFM* (for dual blower units)
Blower Speeds	4 with electronic speed control
Lights	12 Vac, 20 Watt halogen
Filters	Baffle type, dishwasher safe
Exhaust	8-inch
Finish	430 stainless steel
Total Connected Load	120 Vac, 60 Hz, (See below for current draw)
Filters	Baffle type, dishwasher safe
Circuit Requirement	120 Vac, 15 Amp. grounded, dedicated circuit, minimum

* At zero inches static pressure

Model Specific

Model	Blowers	Lights	Filters	Maximum Current Draw
DHI361	1	4	1	3.8 Amp.
DHI421	1	4	1	3.8 Amp.
DHI482	2	4	2	6.8 Amp.
DHI542	2	6	2	7.1 Amp.
DHI602	2	6	3	7.1 Amp.

Electrical Specifications

⚠ WARNING

The electrical service to the range hood should be installed only by a licensed electrician.

It is the owner's responsibility to ensure that the electrical connection of this appliance is performed by a qualified electrician. The electrical installation, including minimum supply wire size and grounding, must be in accordance with the National Electric code ANSI/NFPA* (or latest revision) and local codes and ordinances.

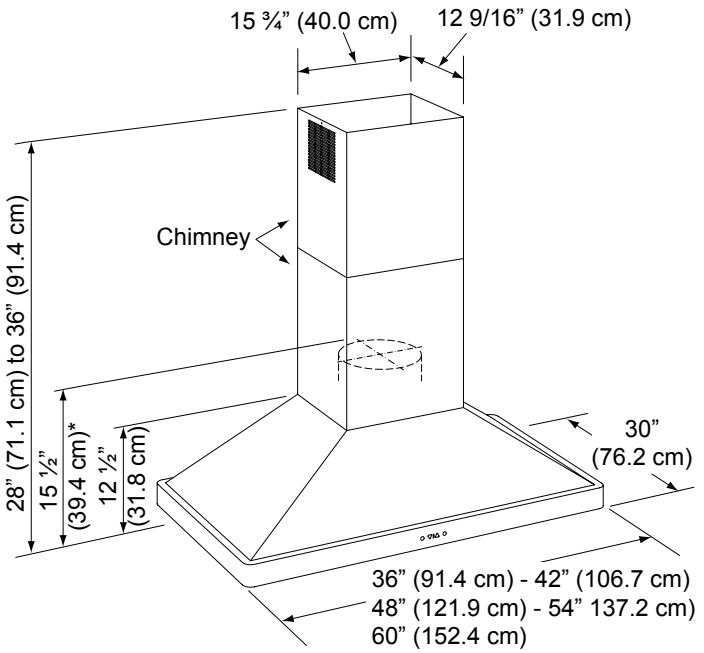
* A copy of this standard may be obtained from:

National Fire Protection Association
1 Batterymarch Park
Quincy, Massachusetts 02269-9101

Connect the hood to a junction box supplied by a 120 Vac, 60 Hz dedicated, grounded, 3-wire (hot, neutral, ground) circuit protected by a 15 Amp. circuit breaker or time delay fuse. Locate the junction box a minimum of 17" (43.2 cm) above the bottom of the range hood.

Dimensions

Tolerances: ±1/16" (±1.6 mm), -0 unless otherwise stated



* 18" 1/4 on models DHI482, DHI542 and DHI602

IMPORTANT: The minimum installed distance from the hood to the cooking surface must be no less than 30 inches. The minimum specified distance may be higher for the particular range or cooktop in use. Check the manufacturers specifications for the cooktop or range.

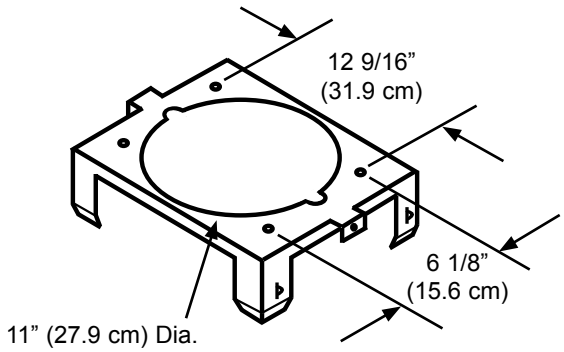
Installation Specifications

Planning the Location

⚠ WARNING

- Observe all governing codes and ordinances during planning and installation. Contact your local building department for further information.
- The range hood is heavy. To prevent personal injury and property damage caused by the hood coming loose from the ceiling, use only the hood mounting bracket provided with the unit.

- Carefully check the location where the hood is to be installed. The hood should be placed for convenient access. Make certain that electrical power can be provided in the selected location.
- The hood model selected must be as wide as the cooktop surface or wider.
- Install the range hood and cooking appliance(s) so that they can be removed if service is required.
- Plan the installation so that all minimum dimensions are met or exceeded (see page 3). Dimensions shown provide minimum clearances, unless otherwise noted.
- The mounting bracket must be attached directly to the studs in the ceiling, or to a reinforced mounting block secured to the studs. See below for mounting bracket hole dimensions.



Back Dimensions

- The mounting bracket must be mounted directly above the center of the cooking surface. The mounting surface must be level.
- Allow clearance in the center of the mounting bracket for the exhaust duct to pass through the ceiling.

Planning the Duct Work

⚠ WARNING

- To prevent combustion by-products, smoke or odors from entering the home and to improve efficiency, tape all duct joints securely.
- Use only duct work deemed acceptable by state, municipal and local codes.
- **DO NOT** install an additional in-line or external blower to increase the length of the duct run. Even small differences between blower air flow rates can greatly reduce the air draw of the hood.

⚠ CAUTION

To reduce the risk of fire and to properly exhaust air, be sure to duct air outside the house or building. Do not vent exhaust air into spaces within walls or ceilings or into attics, crawl spaces or garages.

- All duct work materials (including screws and duct tape) must be purchased separately by the customer.
- When planning new duct work, always look for the shortest, most direct route to the outside.
- The hood exhaust connects to an 8-inch round duct. You can increase the duct size over the duct run if desired. To prevent a back draft, never decrease the duct size over the run. If existing duct work is smaller than 8 inches in diameter, remove it and replace it with 8-inch duct work.
- Do not rely on tape alone to seal duct joints. Fasten all connections with sheet metal screws and tape all joints with certified silver tape or duct tape. Use sheet metal screws as required to support the duct weight.
- To prevent back-drafts, a damper at the duct outlet may also be required.
- Make sure duct work does not interfere with floor joists or wall studs.

Installation Specifications

Calculating the Maximum Duct Run Length

The maximum straight duct length for the hood is 50 feet. To determine the actual maximum duct run, subtract the equivalent length of each elbow, transition and cap from 50 feet.

EQUIVALENT LENGTHS			
Piece	**Subtract**	**Piece**	**Subtract**
8” 90° elbow	7 feet	10” 90° elbow	5 feet
8” 45° elbow	3 feet	10” 45° elbow	2 feet
3¼” X 10” to round 90° transition	25 feet	3¼” X 10” to 8”/10” round transition	4 feet
Roof cap	*	Wall cap with damper	*

* The equivalent lengths of roof and wall caps vary with model and configuration. For equivalent length, contact the manufacturer or a qualified HVAC specialist.

Duct Work Design Tips

Wherever possible, reduce the number of transitions and turns to as few sharp angles as possible. Two staggered 45° angles are better than one 90°.

Keep turns as far away from the hood exhaust as possible, and as much space between bends as possible.

For best performance, use round duct instead of rectangular, especially when elbows are required.

If multiple elbows are used, try to keep a minimum of 24 inches straight duct between them.

Avoid “S” or “back to back” use of adjacent elbows.

In regions where the weather gets extremely cold, use thermal breaks, such as a short section of non-metallic duct, to avoid indoor heat loss. Locate the break as close as possible to the outside pass through point.

Do not use flexible metal duct.

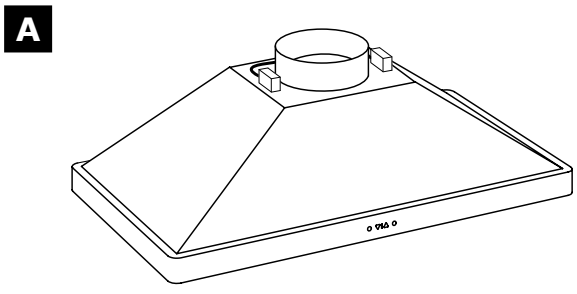
DO NOT use duct work that is smaller in cross-sectional area than the recommended types above.

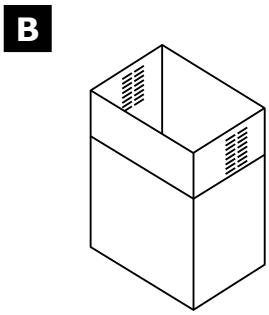
Installation Instructions

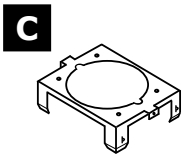
Verify the Package Contents

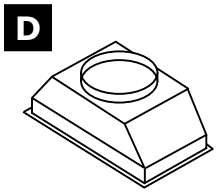
Unpack the parts box(es) and verify that all required components have been provided. If any item is missing or damaged, please contact the dealer immediately. Do not install a damaged or incomplete appliance.

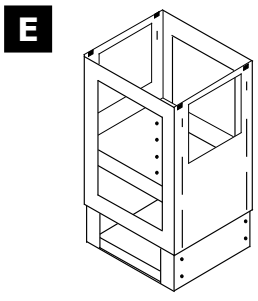
- **A** Hood assembly with filter(s)
- **B** Chimney assembly (2 piece)
- **C** Mounting bracket
- **D** Blower exhaust cowling (2 blower units only)
- **E** Framework assembly (2 piece)
- **F** Mounting and assembly hardware
- **G** Use and care manual

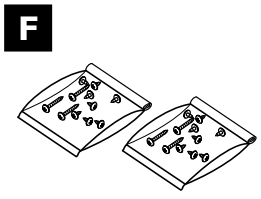


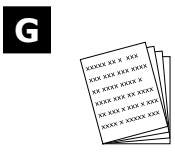












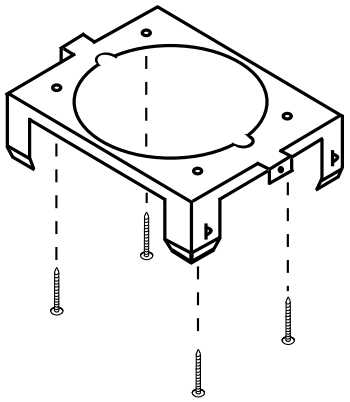
Installation Instructions

⚠ WARNING

- Observe all governing codes and ordinances during installation. Contact your local building department for further information.
- A qualified technician must complete the installation of this built-in appliance. The owner is responsible to make sure the hood is properly installed.
- Do not install the range hood unless the power supply provided meets the required ***Electrical Specifications*** (see page 3).
- To avoid an electric shock hazard and property damage, locate electric wires and water pipes and avoid drilling or cutting in the vicinity.
- The range hood is heavy. To prevent personal injury and property damage install the hood only as specified in the following instructions. Make sure all screws used to mount and assemble the hood are tight. Failure to properly anchor the hood to the ceiling may result in personal injury due to the unit falling. Hanging the range hood requires two people. Do not attempt to lift the hood without assistance.
- **DO NOT** use the mounting anchors provided with the unit. They are part of a standard mounting hardware package provided with many Dacor hoods, but not suitable for use with this model.

Install Mounting Bracket

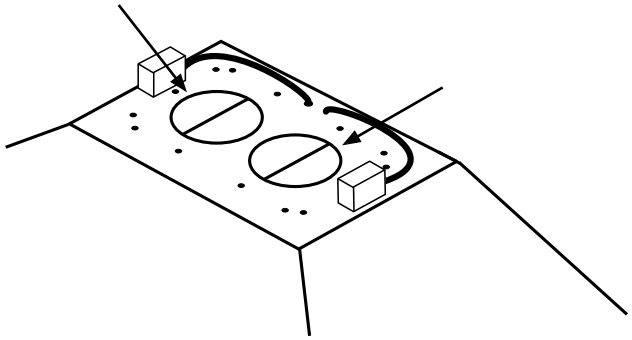
1. Locate the mounting bracket and position it against the ceiling at the previously determined mounting location (see page 4).
2. Using a pencil, mark the four mounting hole locations on the ceiling.
3. Drill four 1/16” (1.6 mm) pilot holes at the mounting hole locations.
4. Attach the bracket using four #12 screws (not supplied). Make sure the screws penetrate into the wood mounting surfaces 1 1/2” (3.8 cm).



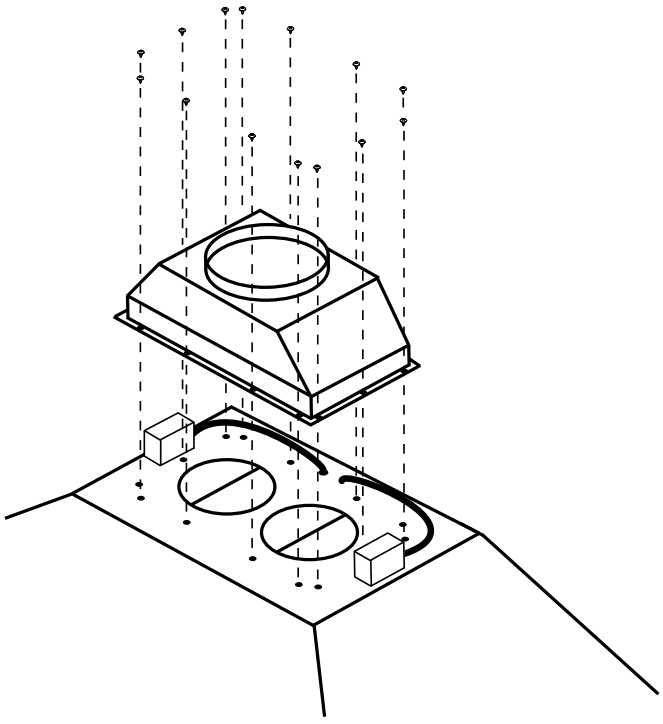
5. Cut a hole for the duct to pass through in the center of the bracket.

Assemble the Hood

1. Place the hood assembly on a soft surface with the bottom side down during assembly to avoid damage.
2. Tip the hood up on it’s side and remove the filter(s) to reduce weight and avoid damage.
3. Inside the exhaust outlet(s) there are metal or plastic damper flaps. The flaps close to help prevent back-drafts when the blower is turned off. Make sure all the flaps open and close freely before proceeding. Remove any shipping tape that may be present.

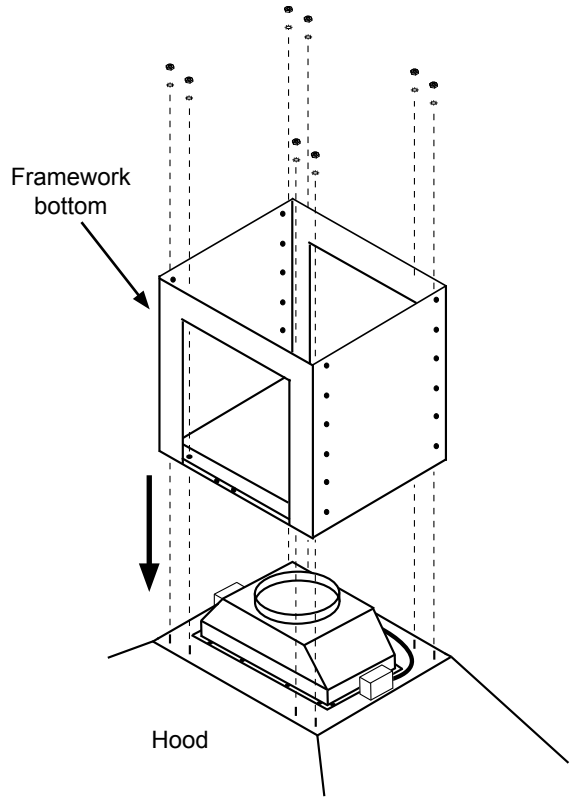


4. Remove the tape that holds the wiring in place on top of the hood during shipment.
5. On models with two blowers, put the exhaust cowling over the blower outlets on the top of the hood. Fasten the cowling in place with 14 machine screws.

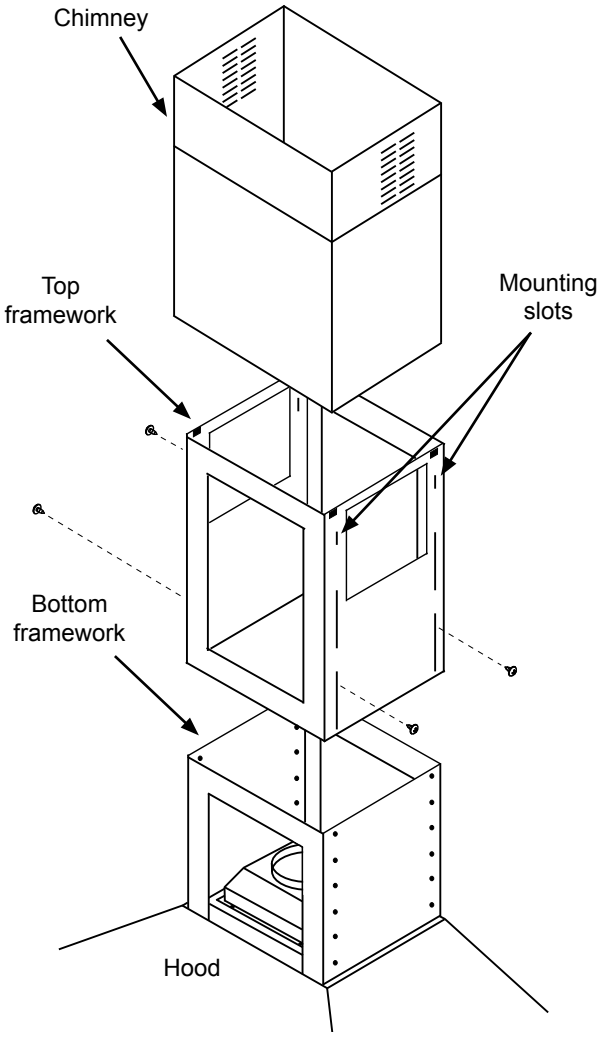


Installation Instructions

6. Separate the bottom framework piece from the top framework piece. The top frame work piece has 5-inch slots on the sides. The bottom piece has a series of holes on the sides.
7. Position the bottom framework piece on top of the hood. Slide the studs on the top of the hood into the holes on the bottom of the framework piece. The cut-outs for the wiring allow the bottom framework piece to fit on only one way. If it does not fit properly, turn it 180° so that the cut-outs line up. Make sure all wiring is tucked inside the framework piece and are not pinched.
8. Use eight provided lock washers and nuts to secure the bottom framework piece to the top of the hood.



9. Determine the required framework height. To determine the required framework height:
   - ◊ Measure the distance from the ceiling to the cooking surface.
   - ◊ Subtract the height at which the hood will be mounted (30” minimum) and the hood thickness (12 1/2”) from the distance measured.
10. Put the top framework piece over the bottom framework piece. The mounting slots on the top piece must be up.
11. Use four machine screws to fasten the top piece to the bottom piece. The total height of the two pieces together must equal the required framework height determined above.
12. Remove the protective plastic covering from both pieces of the chimney assembly. Do not remove the protective tape strips from the inside. They protect the telescoping pieces from scratching during installation.
13. Carefully slide both sections together so that only the vents on the top section show.
14. Hold the chimney vertically with the vents up.
15. Carefully put the chimney over the top of the framework, taking care not to scratch the surfaces. Make sure the Dacor logo faces the same side as the control panel.
16. Make sure any wires are tucked in behind the chimney and are not pinched.



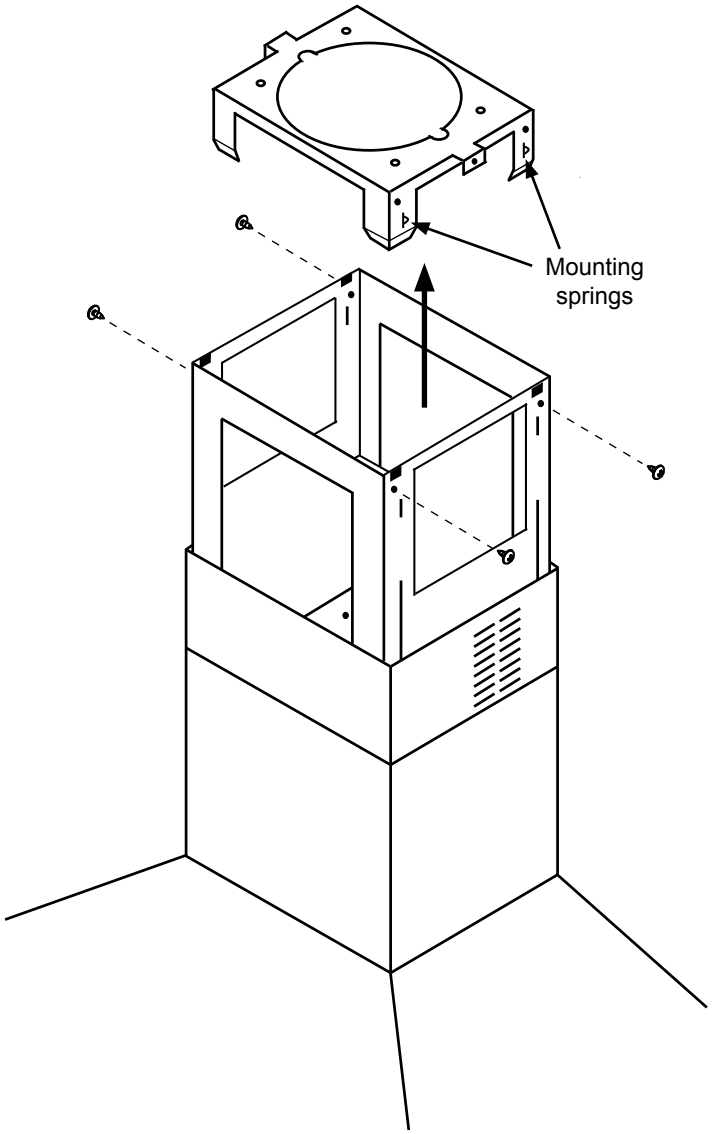
Installation Instructions

Hang the Hood

⚠ WARNING

To prevent personal injury, do not rely on the mounting springs to hold the hood assembly in place on the ceiling. Once the hood is hooked in place IMMEDIATELY secure the framework to the mounting bracket as described below.

1. Before raising the hood into position, lift it up and orient it so that the control panel faces the same direction as the front of the cooktop or range.
2. Lift the hood assembly up on both sides and slip the end of the framework over the mounting bracket. Push up until all four mounting springs protrude out of the mounting slots on the top of the framework.
3. Attach the framework to the mounting bracket immediately using four self-tapping screws.

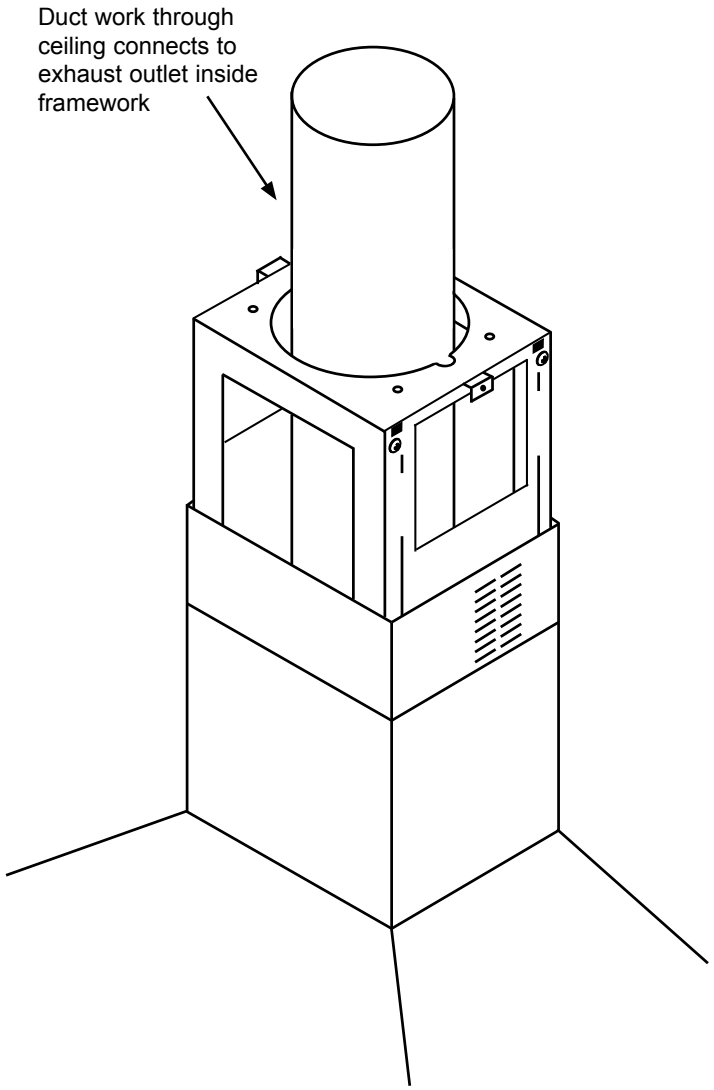


Install the Duct Work

⚠ WARNING

Do not use screws to attach the duct work to the hood exhaust outlet. Use duct tape only. Screws may prevent the damper flaps on the top of the hood from opening.

Install the duct work system according to the specifications on pages 4 and 5. Lift the chimney up and reach inside the framework to access the hood exhaust. Attach the duct to the hood exhaust with duct tape alone. Use sheet metal screws (not provided) and duct tape on all the remaining duct system joints.



Preparing for Installation

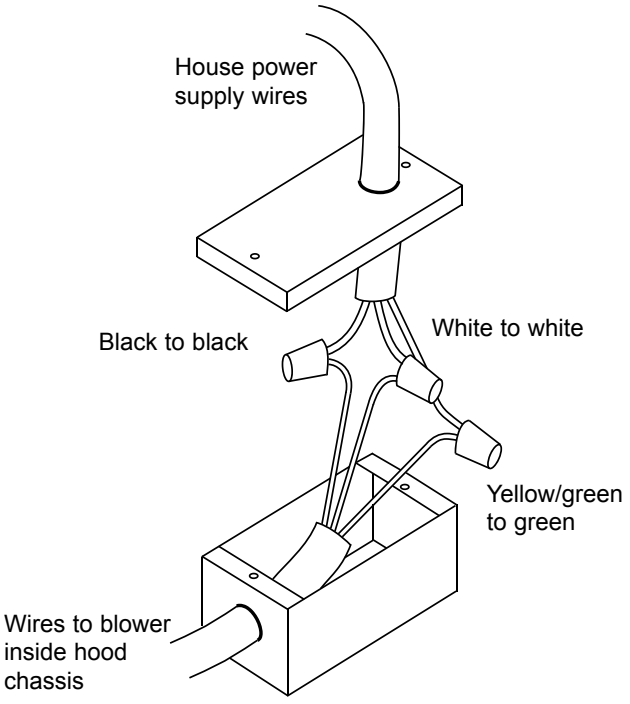
Final Electrical Installation

⚠ WARNING

- To avoid electric shock or fire hazard, prior to connecting the electrical wiring to the hood, make sure that power to the hood power supply line is turned off at the circuit breaker panel or fuse box.
- Improper connection of the hood electrical wiring may create an electric shock or fire hazard and may result in damage to the hood's electrical system. See page 3 for specifications.
- Do not ground the hood to the neutral (white) power supply wire. Connect the hood ground wire to a separate, proper ground wire installed by a licensed electrician.
- Make sure all wire used is capable of handling the total connected load. See page 3.

Connect the house power supply wires to the wires inside the hood junction box, inside the chimney, on the right side:

1. Connect the white wire from the hood to the neutral (white) power supply wire.
2. Connect the black wire from the hood to the hot (black) power supply wire.
3. Connect the green and yellow wire from the hood to the house ground (green) wire from the junction box.

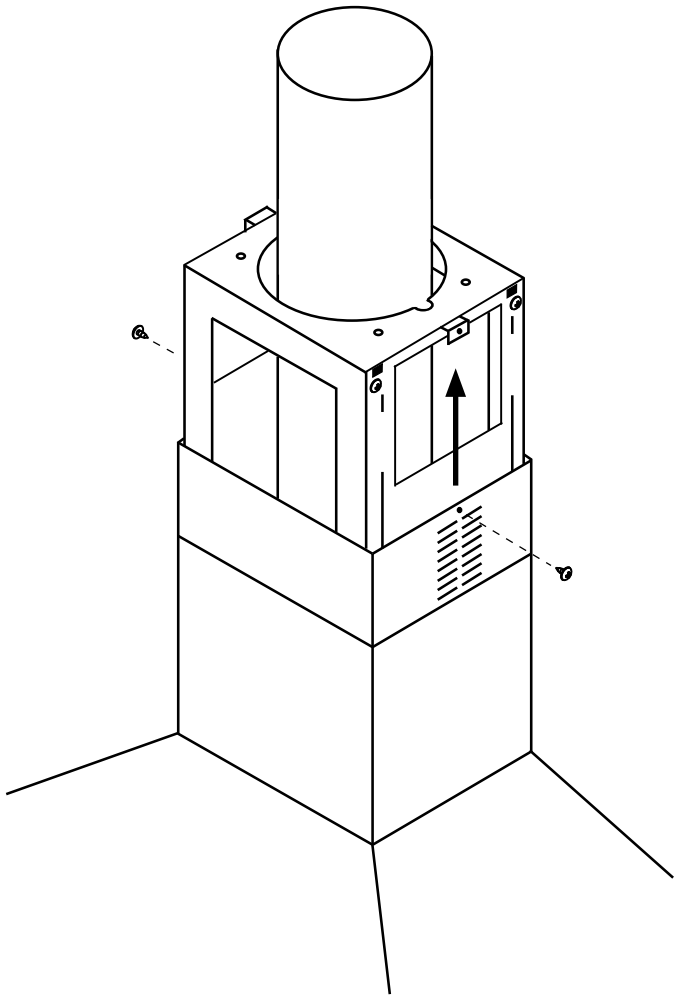


Final Chimney Assembly

⚠ WARNING

Be careful not to pinch the electrical wires while assembling the chimney.

1. Move the chimney up toward the ceiling. Line up the holes on the side of the chimney, above the vents, with the holes on the side of the mounting bracket.



2. Attach the sides of the chimney to the bracket using two machine screws, one on each side.
3. Carefully, slide the bottom portion of the chimney down until it rests on the top of the range hood.
4. Reinstall the range hood filter(s) before operation.

Verifying Proper Operation

1. Make sure power is switched on at the circuit breaker panel or fuse box.
2. If the control panel is not lit, remove the filter(s) and turn on the main power switch located behind the filters on the underside of the hood. Replace the filter(s).
3. Touch the light key. Verify that all the lights come on.
4. Touch the light key again to turn the lights off.
5. Touch the blower "+" key once and release. Verify that one light is showing on the blower speed indicator and that the blower is on at low speed.
6. Touch and release the blower "+" repeatedly, three times. Verify that with each touch of the key the number of lights on the speed indicator increases and that the blower speed increases accordingly.
7. Touch and hold the blower "-" key until the blower turns off.

If the hood fails to operate properly:

- Verify that power is supplied to the hood.
- Check the electrical connections to ensure that the installation has been completed correctly.
- Repeat the above test.
- If the hood still does not work, contact Dacor Distinctive Service at (877) 337-3226. Do not attempt to repair the appliance yourself. If you need service, be sure to have the model and serial numbers available when you call. See the inside cover for location.

Dacor is not responsible for the cost of correcting problems caused by a faulty installation.

Installation Checklist

⚠ WARNING

- To ensure a safe and proper installation, the following checklist should be completed by the installer to ensure that no part of the installation has been overlooked.
- Proper installation is the responsibility of the homeowner. The importance of proper installation of your Dacor range hood cannot be overemphasized.

☐ Is the mounting bracket properly attached to the ceiling according to the instructions on page 6?

☐ Is the hood properly secured to the mounting bracket with the machine screws? See page 9.

☐ Is the duct work completely installed? Are all joints attached with sheet metal screws and wrapped with duct tape? See pages 4, 5 and 9?

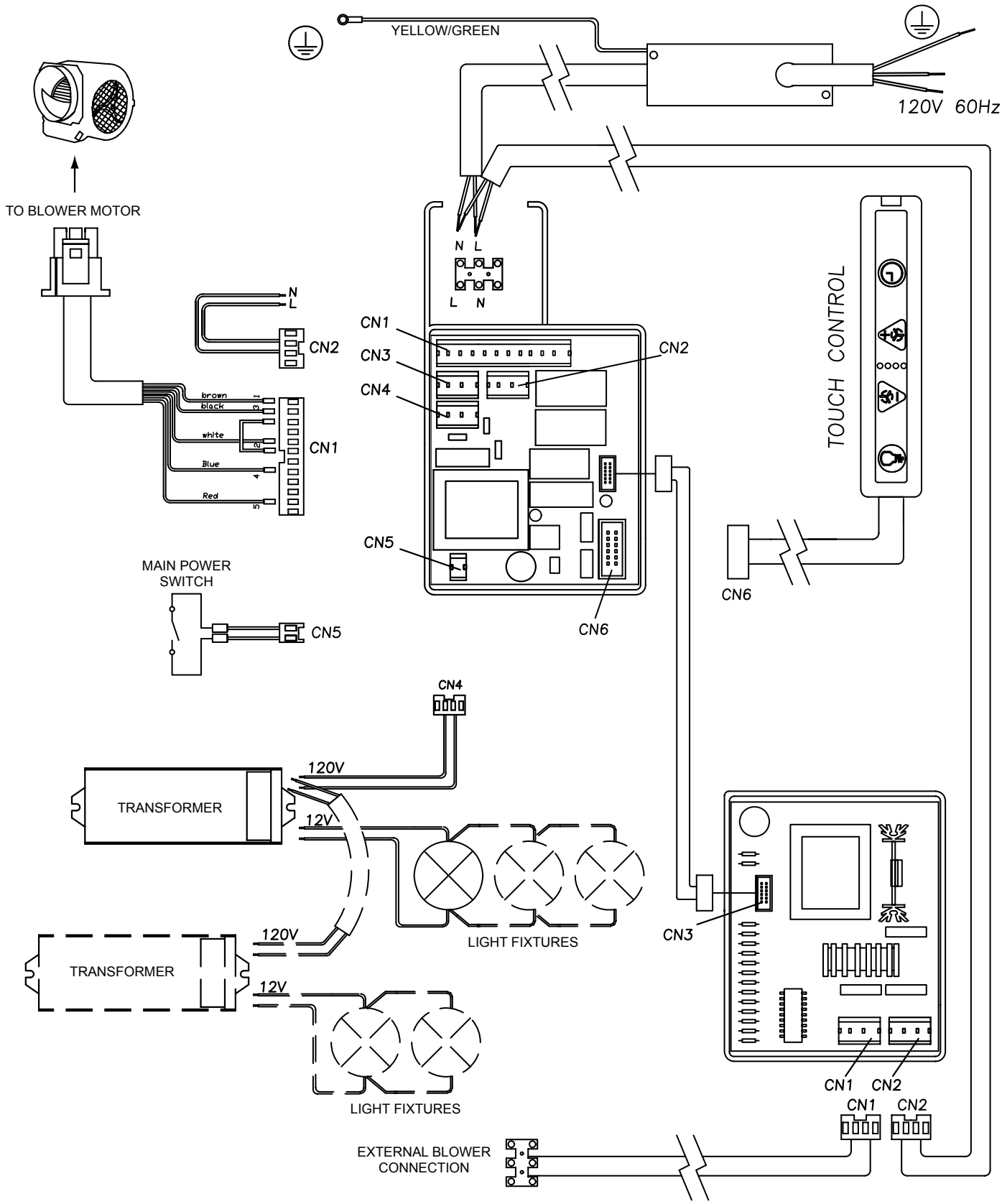
☐ Is the range hood wired and grounded according to these instructions and in accordance with all applicable electrical codes? See pages 3 and 10.

☐ Are the filters properly installed according to the use and care manual?

☐ Has proper operation been verified?

☐ Has the warranty been activated on-line or the warranty card filled out completely and mailed?

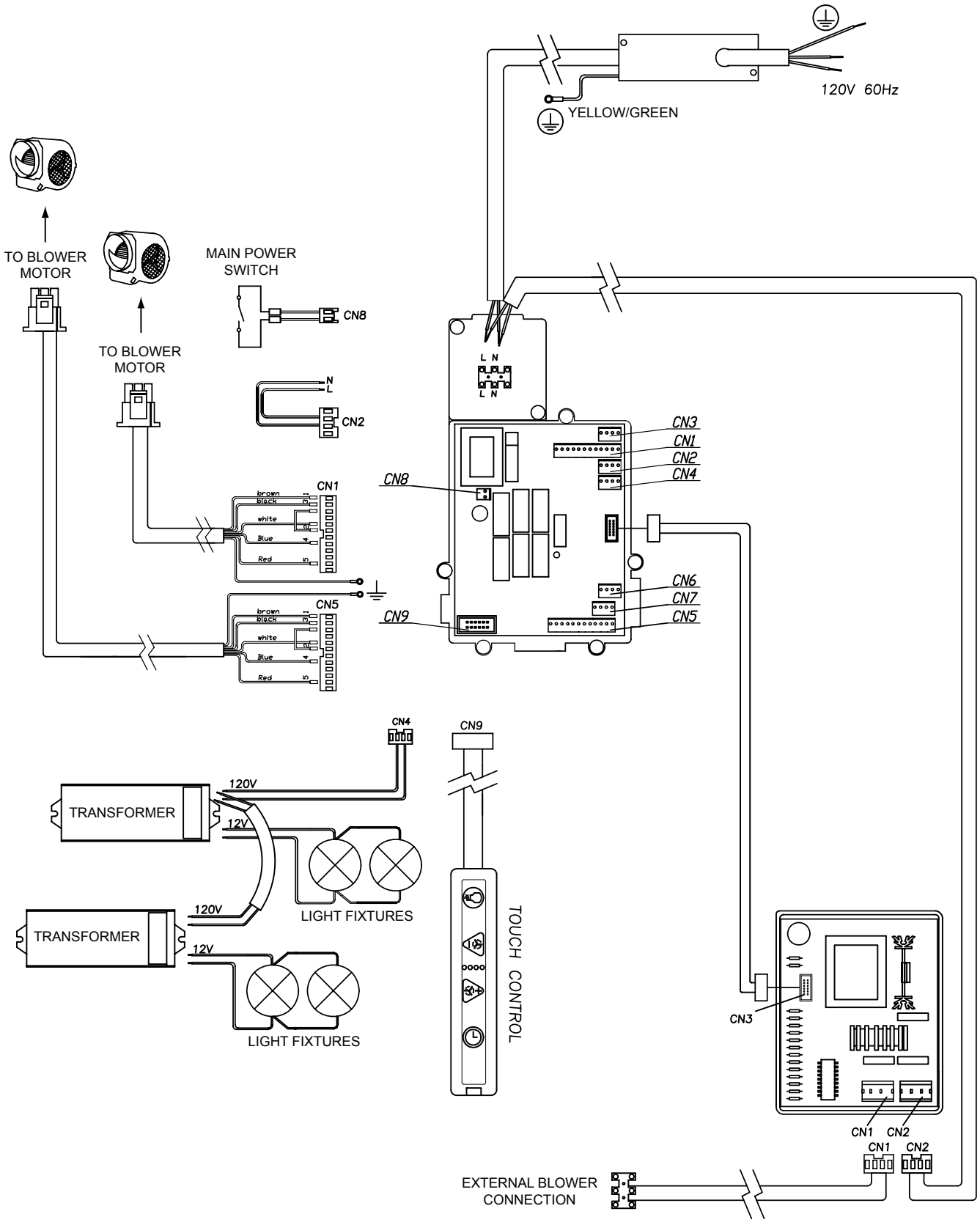
Wiring Diagrams



Please note—the layout on the PC Board shown above may vary—however all wires are coded and the connections on the PC Board are also coded with the same number/letters.

Single Blower Models: DHI361, DHI421

Wiring Diagrams



Please note—the layout on the PC Board shown above may vary—however all wires are coded and the connections on the PC Board are also coded with the same number/letters.

Double Blower Models: DHI482, DHI542, DHI602